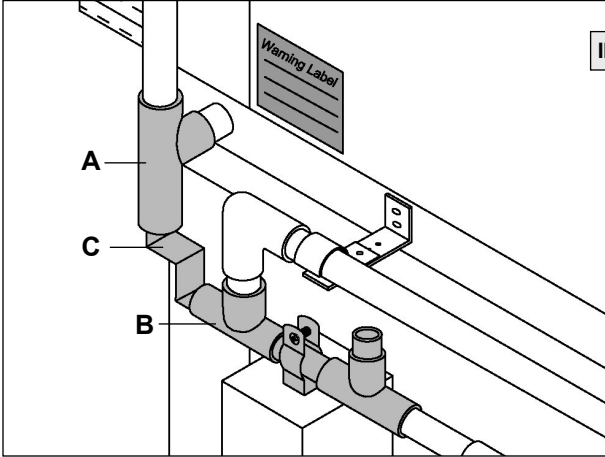
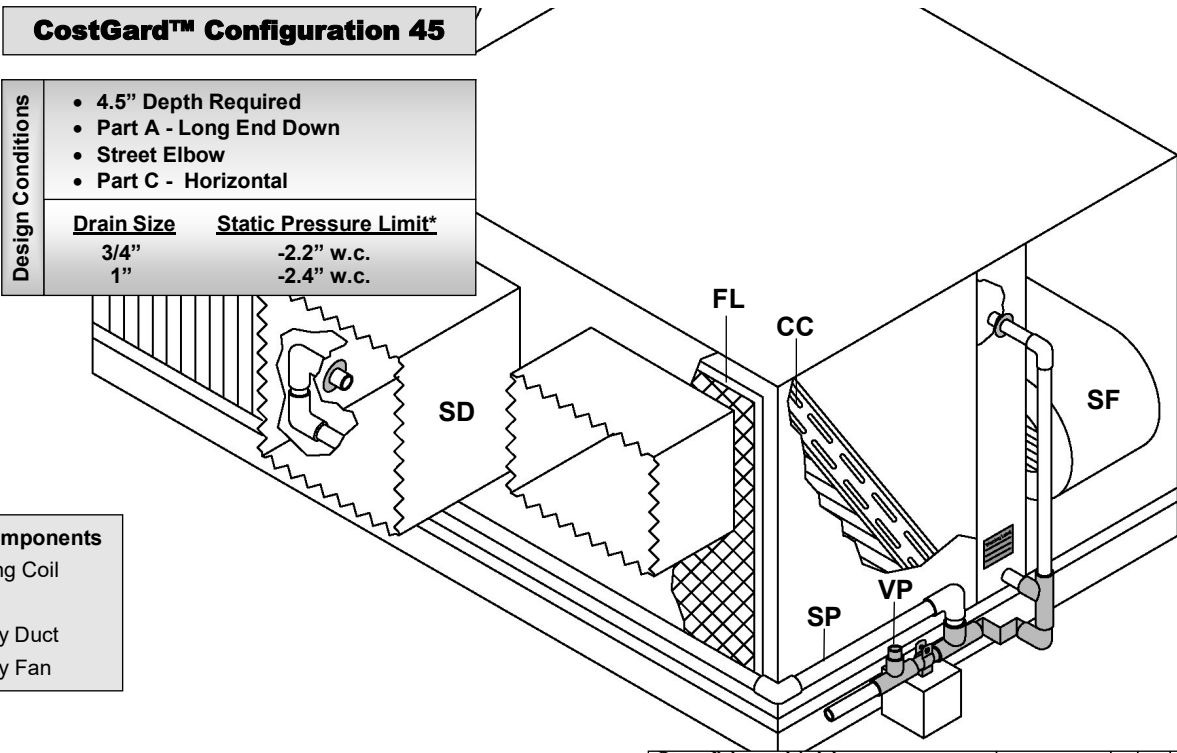
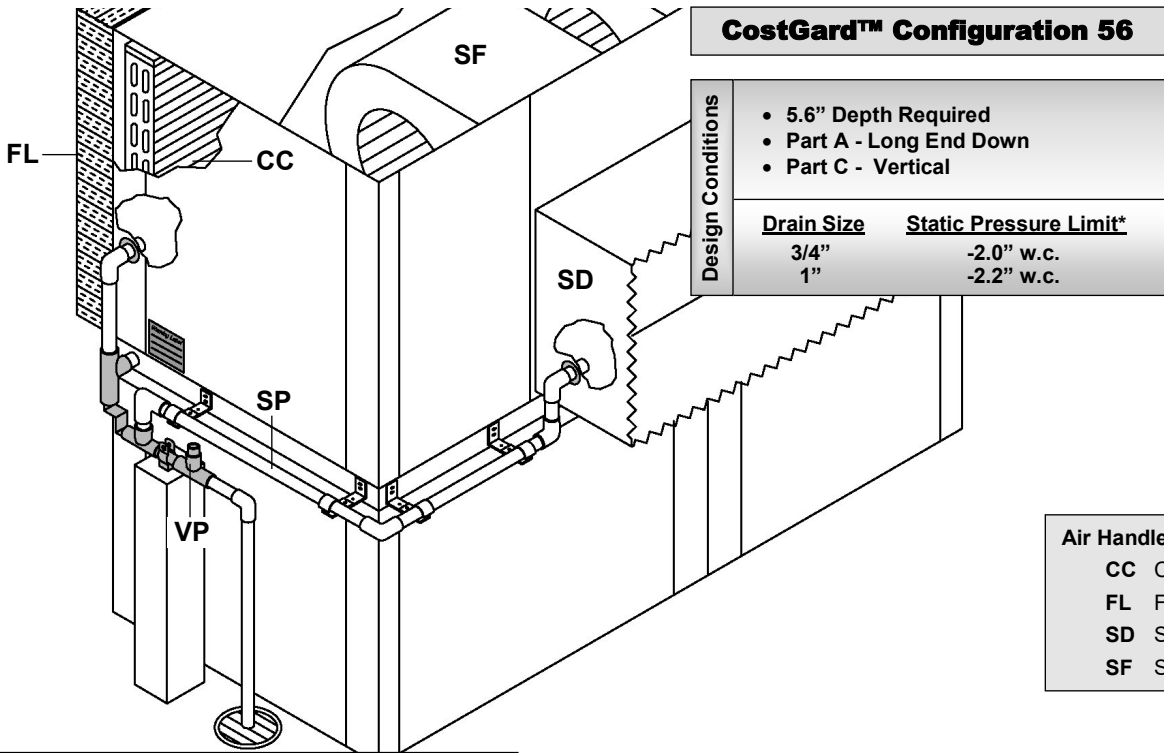


INSTALLATION EXAMPLES

CostGard™ Condensate Drain Seal
Light Commercial Kit - Model 1525LC
For Up To 30 Ton Draw-Through Air Handlers With 3/4" Or 1" Drain Outlet

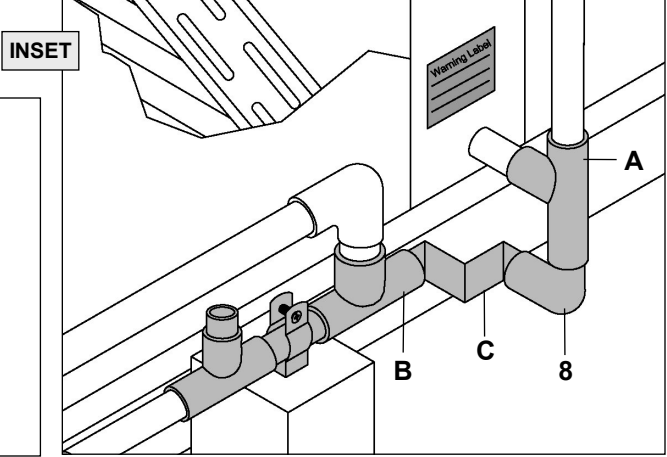


CostGard™ Drain Seal Parts

- Part A - Connects to the condensate drain outlet with the long end up.
- Part B - Connects to the supply air pipe; can be rotated up to 60° to align piping.
- Part C - Internally sloped end is inserted into Part A or Part 8 (Street Elbow); common installation is vertical; horizontal installation requires Part 8 and a minimum 15° slope for Part C; opposite end connects to Part B.
- Part 8 - Street Elbow used with the horizontal configuration of Part C.

Field Supplied Parts

- SP - Supply Pipe - use 1-5/8" hole saw to drill hole in supply plenum or duct; install 1" grommet.
- VP - Vent Pipe - can be vented into a secondary drain pan or a secondary drain line to a conspicuous place of disposal.



INSTALLATION EXAMPLES

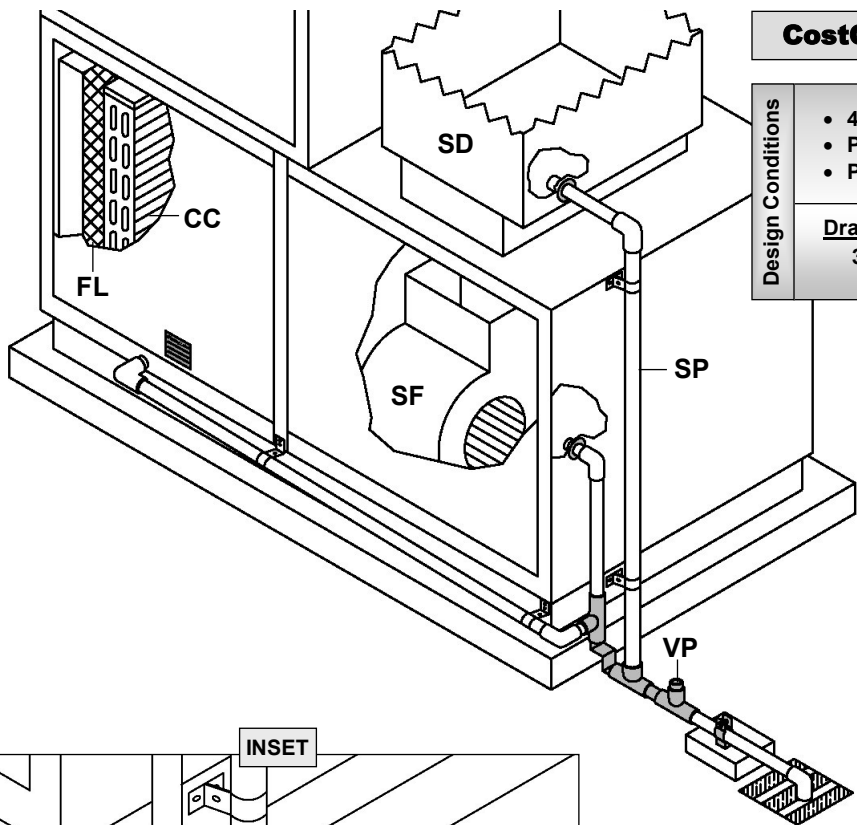
CostGard™ Condensate Drain Seal
Light Commercial Kit - Model 1525LC
For Up To 30 Ton Draw-Through Air Handlers With 3/4" Or 1" Drain Outlet

CostGard™ Configuration 42

Design Conditions

- 4.2" Depth Required
- Part A - Long End Up
- Part C - Vertical

Drain Size	Static Pressure Limit*
3/4"	-1.5" w.c.
1"	-1.8" w.c.

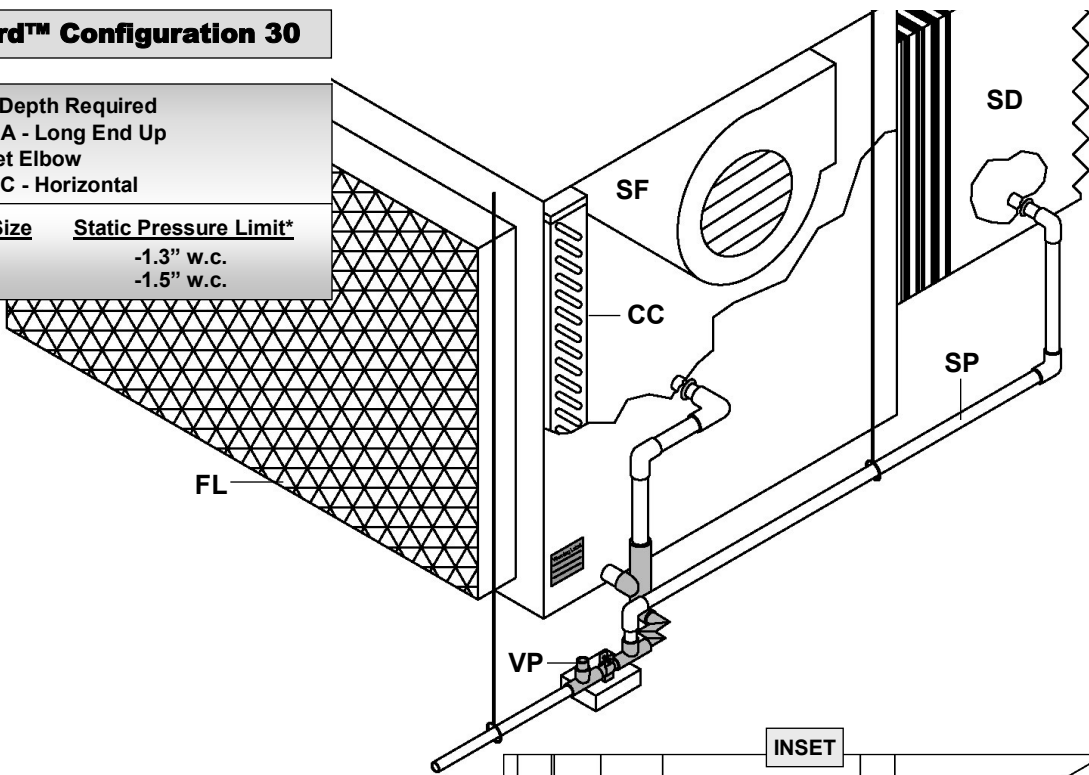


CostGard™ Configuration 30

Design Conditions

- 3.0" Depth Required
- Part A - Long End Up
- Street Elbow
- Part C - Horizontal

Drain Size	Static Pressure Limit*
3/4"	-1.3" w.c.
1"	-1.5" w.c.



Air Handler Components

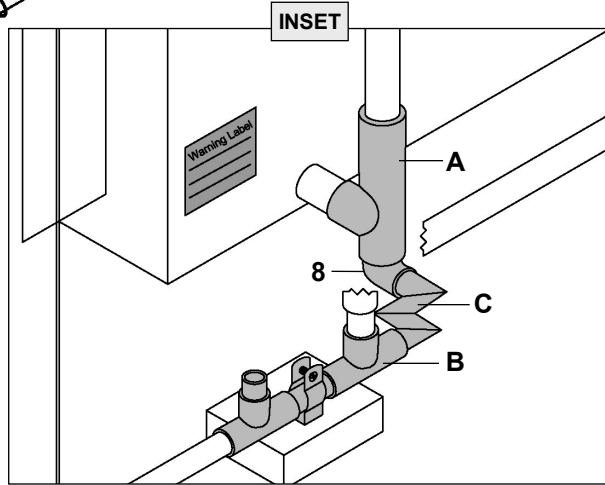
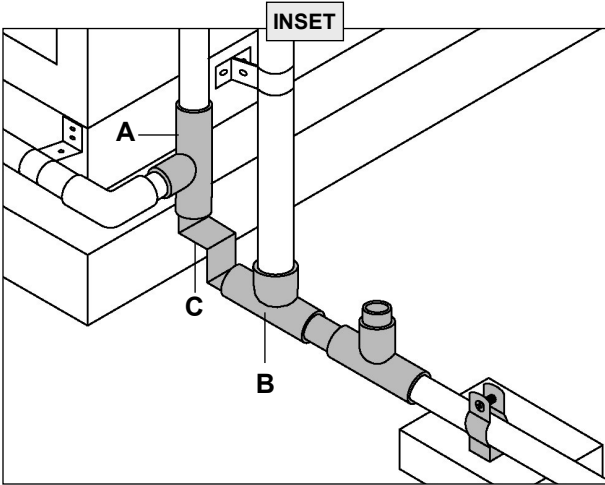
- CC Cooling Coil
- FL Filter
- SD Supply Duct
- SF Supply Fan

CostGard™ Drain Seal Parts

- Part A - Connects to the condensate drain outlet with the long end up.
- Part B - Connects to the supply air pipe; can be rotated up to 60° to align piping.
- Part C - Internally sloped end is inserted into Part A or Part 8 (Street Elbow); common installation is vertical; horizontal installation requires Part 8 and a minimum 15° slope for Part C; opposite end connects to Part B.
- Part 8 - Street Elbow used with the horizontal configuration of Part C.

Field Supplied Parts

- SP - Supply Pipe - use 1-5/8" hole saw to drill hole in supply plenum or duct; install 1" grommet.
- VP - Vent Pipe - can be vented into a secondary drain pan or a secondary drain line to a conspicuous place of disposal.



INSTRUCTIONS

CostGard™ Condensate Drain Seal
Light Commercial Kit - Model 1525LC
For Up To 30 Ton Draw-Through Air Handlers With 3/4" Or 1" Drain Outlet

This CostGard™ Condensate Drain Seal Kit is applicable to most draw-through air handlers with a 3/4" or 1" drain, up to 30 tons. The components provided allow connection to almost any drain configuration on horizontal and vertical units. Installation arrangements are adaptable to units located in the restricted space available in attics or closets.

INSTALLATION NOTES

1) Assemble the following items:

- Manometer
- 3/4" Schedule 40 PVC Pipe and Fittings
- 1" Schedule 40 PVC Pipe and Fittings
- Pipe Supports
- Tape Measure
- Felt Marker
- Sharp Knife
- Hand Drill
- Hole Saws: 1-3/8" and 1-5/8"
- Level
- PVC Pipe Cutter
- PVC Cleaner
- PVC Cement

2) This CostGard™ Kit includes Parts 1 through 9 listed on the far right. Contact Trent Technologies if parts are missing or damaged.

3) Confirm the condensate drain pan and outlets are clean and free of debris.

4) The standard CostGard™ configuration requires a 5-1/2" clearance measured from the center of the drain outlet to the platform/floor. If less space is available, refer to the Configuration Chart at right.

5) Using a manometer, measure the negative static pressure in the drain pan compartment. Static pressure limits* apply to the various CostGard™ configurations available. Consult the Configuration Chart at right to determine the correct CostGard for your application.

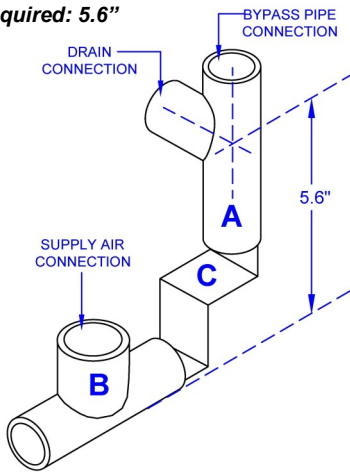
6) When necessary, insulate the CostGard™ Condensate Drain Seal and connecting piping to prevent condensate formation on outside surfaces.

7) Do not connect drain pipe directly to sanitary sewer. This is prohibited by plumbing codes.

CostGard™ CONFIGURATION CHART

CostGard™ Configuration 56

Depth Required: 5.6"

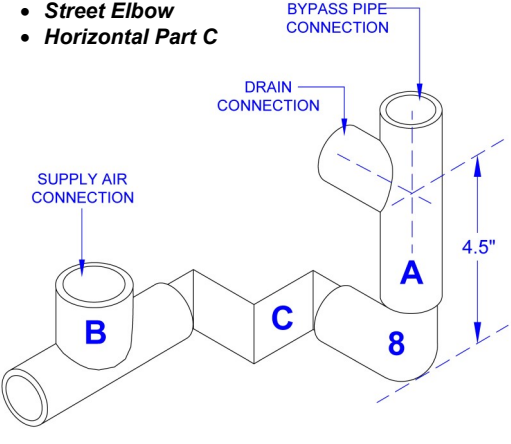


Drain Size	Static Pressure Limit*
3/4"	-2.0" w.c.
1"	-2.2" w.c.

CostGard™ Configuration 45

Depth Required: 4.5"

- Street Elbow
- Horizontal Part C

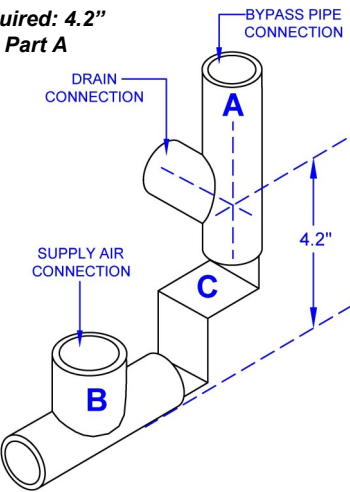


Drain Size	Static Pressure Limit*
3/4"	-2.2" w.c.
1"	-2.4" w.c.

CostGard™ Configuration 42

Depth Required: 4.2"

- Inverted Part A

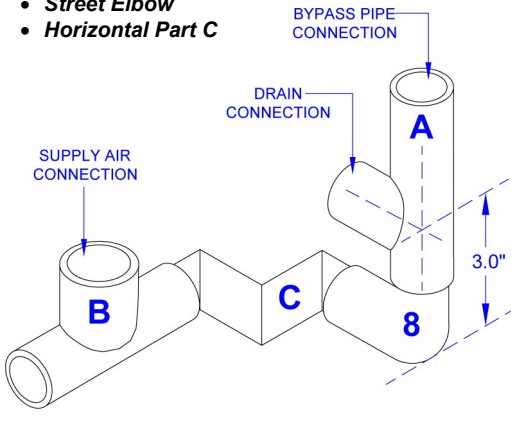


Drain Size	Static Pressure Limit*
3/4"	-1.5" w.c.
1"	-1.8" w.c.

CostGard™ Configuration 30

Depth Required: 3.0"

- Inverted Part A
- Street Elbow
- Horizontal Part C



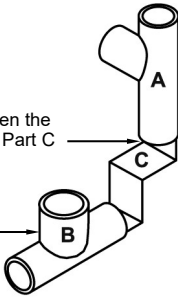
Drain Size	Static Pressure Limit*
3/4"	-1.3" w.c.
1"	-1.5" w.c.

*Do not exceed static pressure limit. Please call Trent Technologies at (903) 509-4843 if measured pressure exceeds static pressure limits noted above.

PART 1

Properly assembled when the internally sloped end of Part C is inserted into Part A.

Rotate Part B until proper position is found (up to 60°).



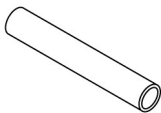
CostGard™ CONDENSATE DRAIN SEAL Qty. 1

PARTS 2 & 3



PART 2 - 3/4" GROMMET Qty. 1
PART 3 - 1" GROMMET Qty. 1

PARTS 4 & 5



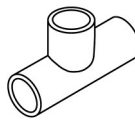
PART 4 - 3/4" PVC PIPE 1-1/2" LONG Qty. 2
PART 5 - 3/4" PVC PIPE 3-1/4" LONG Qty. 1

PART 6



CostGard™ Support with 1" screw Qty. 1

PART 7



3/4" VENT TEE Qty. 1

PART 8



STREET ELBOW Qty. 1

PART 9



WARNING LABEL Qty. 1

INSTRUCTIONS

CostGard™ Condensate Drain Seal
Light Commercial Kit - Model 1525LC
For Up To 30 Ton Draw-Through Air Handlers With 3/4" Or 1" Drain Outlet

INSTALLATION FUNDAMENTALS

This CostGard™ Condensate Drain Seal is connected to the drain connection of the HVAC unit the same as the condensate trap. In order to form an air seal, in place of a water seal, two other pipe connections are required. For most applications these connections are quite simple; however, some can be more challenging. The basic criteria for a successful installation are:

Pipe Connections

The CostGard™ Condensate Drain Seal must be connected with Schedule 40 PVC piping to the air handler at the following three (3) points:

- 1) The condensate drain pan connection where condensate traps are usually connected;
- 2) Using a 1-3/8" hole saw, cut hole* into the fan/drain pan compartment between the cooling coil and the supply fan (negative pressure);
- 3) Using a 1-5/8" hole saw, cut hole* into the air supply plenum or duct downstream of the fan (positive pressure).

* NOTE: Remove access panels and check for clearance before drilling holes into the air handler cabinet.

Pipe Routing

All pipes must be routed in such a way that they do not interfere with access panels. As specified by International and Uniform plumbing codes, the field supplied pipe between the CostGard™ and the main drain should slope a minimum of 1/8" per foot.

Pipe Supports

The pipe must be supported and fixed in place to minimize potential damage to the piping and the CostGard™ Condensate Drain Seal.

CostGard™ Drain Seal Verification

With the unit running, before condensate formation and drainage, place a lighter flame over the drain line vent, noted on the adjacent drawing. The air seal is created when the air from the drain line vent deflects slightly the flame of a lighter. In rare instances the lighter's flame may be pulled into the drain line vent, please contact Trent Technologies technical support for resolution by email: info@trenttech.com or phone: (903) 509-4843.

Final Steps

Once the components are assembled and pipe supports are attached, bond each connecting joint with PVC cement. Attach yellow warning label.

INSTALLATION DIAGRAM

The CostGard™ Light Commercial Kit includes all shaded parts noted below. Remaining parts are field supplied.

